

I CLAIM:

- 1 1. A laryngoscope comprising:
 - 2 a handle and a blade, with the blade having a proximal end connected to the handle and a distal end projecting laterally therefrom;
 - 5 camera means mounted on the blade in the vicinity of the distal end for observing a visual field; and
 - 7 display means operatively connected to said camera means for displaying the visual field at a preselected location.
- 1 2. The laryngoscope as claimed in Claim 1, further including lighting means for illuminating the visual field.
- 1 3. The laryngoscope as claimed in Claim 2, further including power supply means for powering said camera means and said display means.
- 1 4. The laryngoscope as claimed in Claim 3, wherein said power supply means ^{are} ~~is~~ mounted in the handle.
a 2
- 1 5. The laryngoscope as claimed in Claim 1, wherein said display means includes a screen mounted on the handle and on which is displayed the visual field observed by the camera means.
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1 6. The laryngoscope as claimed in Claim 5, wherein the
2 camera means are a videocamera.

1 7. The laryngoscope as claimed in Claim 5, wherein said
2 display means ^{organized to be} _{are} lightweight.
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1 8. The laryngoscope as claimed in Claim 1, wherein said
2 camera means are spaced from the distal end of the blade,
3 fiberoptic means providing said operative connection
4 between the camera means and the display means.

1 9. The laryngoscope as claimed in Claim 8, wherein said
2 fiberoptic means include a plurality of optic fibers.

1 10. The laryngoscope as claimed in Claim 8, wherein said
2 fiberoptic means include a fiberoptic tube.

1 11. The laryngoscope as claimed in Claim 5, wherein said
2 camera means comprise a computer chip camera.

1 12. The laryngoscope as claimed in Claim 11, wherein said
2 display means are connected electrically to said computer
3 chip camera.

1 13. The laryngoscope as claimed in Claim 1, characterized
2 further in that it is ^{made of} ₁ lightweight and portable and the
3 ₂₃

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3 power supply means comprises a battery, the display means
4 mounted on the handle adjacent to a line of sight of an
5 intubator directly viewing the visual field itself.

1 14. The laryngoscope as claimed in Claim 13, wherein the
2 display means ^{are} ~~is~~ positionable to allow the ^{professional} intubator
3 simultaneous viewing of the visual field directly and the
4 visual field indirectly through the display means.

1 15. A laryngoscope for use with an intubating instrument in
2 a procedure for intubating a trachea of a patient, the
3 laryngoscope comprising:

4 a handle for ^{a professional} an intubator to grasp in a first hand,
5 a blade with a proximal end connected to the handle and
6 a distal end extending laterally therefrom for insertion
7 into a patient's mouth during the procedure to elevate
8 and move to one side the patient's tongue steadily and
9 constantly;

10 ^{on the blade} camera means mounted ⁱⁿ the vicinity of the distal
11 end of the blade for observing a visual field that
12 includes the patient's trachea opening and other oral
13 internal structures;

14 the camera means connected operatively to a portable
15 ^{professional} lightweight display means arranged for the ^{intubator} to
16 see the field of view on the display means, whereby the
17 ^{professional} intubator's second hand is available to manipulate the

18 intubating instrument without disturbing the camera
19 means.

1 16. A method of intubating a trachea of a patient by an
2 ^{professional} intubator using an intubating instrument and a
3 laryngoscope, the method comprising steps as follows:

4 providing the laryngoscope with a handle and a
5 blade, the blade having a proximal end connected to the
6 handle and a distal end projecting laterally therefrom;

7 inserting the blade into the patient's mouth while
8 grasping the laryngoscope by the handle using a first
9 hand of the ^{professional} intubator for steadily and constantly lifting
10 and move to one side the patient's tongue and exposing
11 the patient's trachea opening and other oral internal
12 structures to view;

13 providing illuminating means for illuminating the
14 trachea opening and other oral internal structures;

15 providing camera means mounted ^{or the blade} in the vicinity of
16 the distal end of the blade so that it observes a field
17 of view that includes the patient's trachea opening and
18 other oral internal structures;

19 having the camera means operatively connected to
20 display means for viewing the field of view thereon;

21 inserting the intubating instrument into the mouth
22 of a patient using a second hand of the ^{professional} intubator and

23 manipulating the intubating instrument for insertion of
24 a tube into the patient's trachea opening;

25 positioning the display means on the handle so that
26 while the ^{professional} intubator inserts and manipulates the
27 intubating instrument into the patient's trachea the
28 ^{professional} intubator observes the trachea opening and other oral
29 internal structures of the patient on the display means
30 unaffected by the manipulating of the intubating
31 instrument.